

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|---------------------------|------------------|---------|------------------|
| L1 | 1 | ("5565378").PN. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/10 10:18 |
| L2 | 1 | ("6,423,625").PN. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/10 10:20 |
| L3 | 0 | titanium adj copper with pad | US-PGPUB; USPAT; EPO; JPO | AND | OFF | 2006/05/10 10:20 |
| L4 | 0 | titanium with copper with pad | US-PGPUB; USPAT; EPO; JPO | AND | OFF | 2006/05/10 10:21 |
| L5 | 0 | titanium and copper with pad | US-PGPUB; USPAT; EPO; JPO | AND | OFF | 2006/05/10 10:21 |
| L6 | 463 | titanium | US-PGPUB; USPAT; EPO; JPO | AND | OFF | 2006/05/10 10:21 |
| L7 | 408 | titanium with copper with pad | US-PGPUB; USPAT; EPO; JPO | AND | OFF | 2006/05/10 10:21 |
| L8 | 230 | titanium with copper with pad | USPAT; EPO; JPO | AND | OFF | 2006/05/10 10:22 |
| L9 | 1 | "6218308" | USPAT; EPO; JPO | AND | OFF | 2006/05/10 10:23 |
| L10 | 38 | "6218302" | USPAT; EPO; JPO | AND | OFF | 2006/05/10 10:23 |
| L11 | 1 | ("6218302").PN. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/10 10:31 |
| L12 | 0 | ("copperwithdopedwithtitanium").PN. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/10 10:31 |
| L13 | 1426 | copper with doped with titanium | US-PGPUB; USPAT; EPO; JPO | AND | OFF | 2006/05/10 10:33 |
| L14 | 0 | copper with doped with titanium with electromigration | US-PGPUB; USPAT; EPO; JPO | AND | OFF | 2006/05/10 10:33 |
| L15 | 3 | copper with doped with titanium with pad | US-PGPUB; USPAT; EPO; JPO | AND | OFF | 2006/05/10 10:34 |
| L16 | 244 | copper with doped with titanium and pad | US-PGPUB; USPAT; EPO; JPO | AND | OFF | 2006/05/10 10:34 |

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| L17 | 127 | copper with doped with titanium and pad | USPAT; EPO; JPO | AND | OFF | 2006/05/10 10:59 |
| L20 | 5 | copper with implanted with titanium and pad | USPAT; EPO; JPO | AND | OFF | 2006/05/10 11:01 |
| L21 | 26 | copper with implanted with titanium | USPAT; EPO; JPO | AND | OFF | 2006/05/10 11:43 |
| L22 | 444 | copper with ti with mg with al | USPAT; EPO; JPO | AND | OFF | 2006/05/10 11:48 |
| L23 | 0 | copper with ti with mg with al with dop\$6 | USPAT; EPO; JPO | AND | OFF | 2006/05/10 11:48 |
| L24 | 8 | copper with ti with mg with al with dop\$6 | USPAT; EPO; JPO | AND | OFF | 2006/05/10 11:50 |
| L25 | 1 | ("5,891,804").PN. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/10 11:54 |
| L26 | 1 | ("5,891,802").PN. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/10 11:54 |
| L27 | 4 | ("5391517" "5545927" "5656860" "5719447").PN. | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/05/10 11:55 |
| L28 | 8 | ("5116463" "5198389" "5290733" "5312773" "5354712" "5391517" "5429989" "5654245").PN. | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/05/10 11:58 |
| L29 | 1 | ("5,719,447").PN. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/10 12:17 |
| L30 | 1 | ("5661082").PN. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/10 13:01 |
| L31 | 5070 | (257/770,774,762-764).CCLS. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/10 13:02 |
| L32 | 0 | 257/23.16.ccls. | US-PGPUB; USPAT; EPO; JPO | AND | OFF | 2006/05/10 13:02 |
| L33 | 836 | 257/e23.16.ccls. | US-PGPUB; USPAT; EPO; JPO | AND | OFF | 2006/05/10 13:02 |
| S1 | 1 | "20040056361".pn. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/30 10:39 |
| S2 | 1 | ("6300688").PN. | USPAT; USOCR; EPO; JPO | OR | OFF | 2004/08/30 11:04 |

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|-----|---|-----------------|------------------------------|----|-----|------------------|
| S3 | 1 | ("3755089").PN. | USPAT; USOCR; EPO; JPO | OR | OFF | 2004/08/30 11:05 |
| S4 | 1 | ("4341846").PN. | USPAT; USOCR; EPO; JPO | OR | OFF | 2004/08/30 11:05 |
| S5 | 1 | ("4910169").PN. | USPAT; USOCR; EPO; JPO | OR | OFF | 2004/08/30 11:12 |
| S6 | 1 | ("4987750").PN. | USPAT; USOCR; EPO; JPO | OR | OFF | 2004/08/30 11:13 |
| S7 | 1 | ("4995552").PN. | USPAT; USOCR; EPO; JPO | OR | OFF | 2004/08/30 11:13 |
| S8 | 1 | ("5021296").PN. | USPAT; USOCR; EPO; JPO | OR | OFF | 2004/08/30 11:13 |
| S9 | 1 | ("5231306").PN. | USPAT; USOCR; EPO; JPO | OR | OFF | 2004/08/30 11:20 |
| S10 | 1 | ("5472563").PN. | USPAT; USOCR; EPO; JPO | OR | OFF | 2004/08/30 11:21 |
| S11 | 1 | ("5518760").PN. | USPAT; USOCR; EPO; JPO | OR | OFF | 2004/08/30 11:23 |
| S12 | 1 | ("5703408").PN. | USPAT; USOCR; EPO; JPO | OR | OFF | 2004/08/30 11:24 |
| S13 | 1 | ("5776617").PN. | USPAT; USOCR; EPO; JPO | OR | OFF | 2004/08/30 11:25 |
| S14 | 1 | ("5804908").PN. | USPAT; USOCR; EPO; JPO | OR | OFF | 2004/08/30 11:25 |
| S15 | 1 | ("5939788").PN. | USPAT; USOCR; EPO; JPO | OR | OFF | 2004/08/30 11:33 |
| S16 | 1 | ("6165885").PN. | USPAT; USOCR; EPO; JPO | OR | OFF | 2004/08/30 11:34 |
| S17 | 1 | ("6218302").PN. | USPAT; USOCR; EPO; JPO | OR | OFF | 2004/08/30 12:50 |

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|-----|------|---|------------------------|----|-----|------------------|
| S18 | 14 | ("5063169" "5130274" "5169680" "5243222" "5391517" "5622608" "5674787" "5677244" "5747360" "5821168" "5824599" "5891513" "5933758" "5939788").PN. | USPAT | OR | OFF | 2004/08/30 11:39 |
| S19 | 2 | ("4021277" "4415427").PN. | USPAT | OR | OFF | 2004/08/30 12:16 |
| S20 | 6 | "5622608".URPN. | USPAT | OR | OFF | 2004/08/30 12:16 |
| S21 | 7 | ("5622608" "6057223" "6066892" "6111301" "6180503" "6249055" "6295721" "2001/0042897").PN. | USPAT | OR | OFF | 2004/08/30 12:17 |
| S22 | 1 | ("6268291").PN. | USPAT; USOCR; EPO; JPO | OR | OFF | 2004/08/30 13:07 |
| S23 | 3216 | (seed adj layer) and copper | USPAT; EPO; JPO | OR | OFF | 2004/08/30 13:07 |
| S24 | 838 | (seed adj layer) and copper and pad | USPAT; EPO; JPO | OR | OFF | 2004/08/30 13:32 |
| S25 | 727 | (seed adj layer) and copper and pad and thickness | USPAT; EPO; JPO | OR | OFF | 2004/08/30 14:13 |
| S26 | 1 | ("6218732").PN. | USPAT; USOCR; EPO; JPO | OR | OFF | 2004/08/30 13:40 |
| S27 | 3 | ("4827326" "5365112" "6013571").PN. | USPAT | OR | OFF | 2004/08/30 13:50 |
| S28 | 4 | ("6083835" "6143155" "6315883" "6582579").PN. | USPAT | OR | OFF | 2004/08/30 14:10 |
| S29 | 388 | ((seed adj layer) same thickness) and copper and pad and thickness | USPAT; EPO; JPO | OR | OFF | 2004/08/30 15:35 |
| S30 | 5 | ("6156149" "6228760" "6458689" "6620745" "6638853").PN. | USPAT | OR | OFF | 2004/08/30 14:16 |
| S31 | 10 | ("5654581" "6117747" "6144051" "6159793" "6174804" "6174812" "6329234" "6335557" "6346454" "6433379").PN. | USPAT | OR | OFF | 2004/08/30 14:19 |
| S32 | 14 | ("5063169" "5130274" "5169680" "5243222" "5391517" "5622608" "5674787" "5677244" "5747360" "5821168" "5824599" "5891513" "5933758" "5939788").PN. | USPAT | OR | OFF | 2004/08/30 14:38 |
| S33 | 502 | 257/762,763,764,770,774.ccls. and pad and copper | USPAT; EPO; JPO | OR | OFF | 2004/08/30 15:37 |
| S34 | 83 | 257/762,763,764,770,774.ccls. and pad and copper and nitrogen | USPAT; EPO; JPO | OR | OFF | 2004/08/30 15:55 |

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|-----|------|---|---------------------------------|----|-----|------------------|
| S35 | 0 | "20040056361".pn. | USPAT; EPO; JPO | OR | OFF | 2004/07/17 12:18 |
| S36 | 1 | "20040056361".pn. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/09 13:17 |
| S37 | 1 | ("6642623").PN. | USPAT; USOCR; EPO; JPO | OR | OFF | 2004/07/17 13:08 |
| S38 | 1159 | ((bond or bonding) adj pad) and copper and titanium | USPAT; EPO; JPO | OR | OFF | 2005/06/23 15:49 |
| S39 | 5 | ((bond or bonding) adj pad) and copper and (titanium.ti.) | USPAT; EPO; JPO | OR | OFF | 2005/06/23 15:48 |
| S40 | 3 | ((bond or bonding) adj pad) and ((dope or implant) with copper) | USPAT; EPO; JPO | OR | OFF | 2004/07/17 13:22 |
| S41 | 13 | ((bond or bonding) with pad) and ((dope or implant) with titanium) | USPAT; EPO; JPO | OR | OFF | 2004/07/17 13:25 |
| S42 | 431 | ((bond adj pad) or (bonding adj pad)).ti. | USPAT; EPO; JPO | OR | OFF | 2004/07/17 13:27 |
| S43 | 100 | ((bond adj pad) or (bonding adj pad)).ti. and (ti or titanium) | USPAT; EPO; JPO | OR | OFF | 2004/07/17 13:33 |
| S44 | 1 | "2000183104".pn. | USPAT; EPO; JPO | OR | OFF | 2004/07/18 10:24 |
| S45 | 6 | ("3585461" "4093110" "5036383" "5455195" "5734200" "5976964").PN. | USPAT | OR | OFF | 2004/07/17 13:38 |
| S46 | 9 | ("4136434" "4276557" "4329706" "4398335" "4636832" "4823181" "4872050" "4926222" "4929988").PN. | USPAT | OR | OFF | 2004/07/17 13:42 |
| S47 | 29 | "5036383".URPN. | USPAT | OR | OFF | 2004/07/17 13:42 |
| S48 | 16 | ("4278989" "4364166" "4398335" "4600658" "4755480" "4800177" "4916397" "4948747" "4975875" "4984056" "5036383" "5057447" "5102827" "5262846" "5373192" "5432129").PN. | USPAT | OR | OFF | 2004/07/17 13:44 |
| S49 | 7 | ("3879746" "4811076" "4811078" "4855801" "4890141" "4903110" "4914500").PN. | USPAT | OR | OFF | 2004/07/17 13:47 |
| S50 | 16 | "4984056".URPN. | USPAT | OR | OFF | 2004/07/17 13:48 |

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|-----|-------|---|---------------------------|----|-----|------------------|
| S51 | 16 | ("4278989" "4364166" "4398335" "4600658" "4755480" "4800177" "4916397" "4948747" "4975875" "4984056" "5036383" "5057447" "5102827" "5262846" "5373192" "5432129").PN. | USPAT | OR | OFF | 2004/07/17 13:49 |
| S52 | 13 | ("4278989" "4364166" "4398335" "4600658" "4800177" "4916397" "4948747" "4984056" "5036383" "5057447" "5102827" "5373192" "5432129").PN. | USPAT | OR | OFF | 2004/07/17 13:49 |
| S53 | 3 | ("3609470" "4566026" "4636832").PN. | USPAT | OR | OFF | 2004/07/17 13:51 |
| S54 | 7 | ("3383568" "3409809" "3419765" "3429029" "3436616" "3442012" "3465209").PN. | USPAT | OR | OFF | 2004/07/17 13:55 |
| S55 | 0 | 09/624002 | USPAT; EPO; JPO | OR | OFF | 2004/07/18 10:24 |
| S56 | 1 | ("6314011").PN. | USPAT; USOCR; EPO; JPO | OR | OFF | 2004/07/18 12:29 |
| S57 | 13202 | anisotropically | USPAT; EPO; JPO | OR | OFF | 2004/07/18 12:29 |
| S58 | 4390 | anisotropically adj etching | USPAT; EPO; JPO | OR | OFF | 2004/07/18 12:30 |
| S59 | 3923 | (anisotropically adj etching) and semiconductor | USPAT; EPO; JPO | OR | OFF | 2004/07/18 12:31 |
| S60 | 471 | (method with (anisotropic adj etch)) and semiconductor | USPAT; EPO; JPO | OR | OFF | 2004/07/18 12:31 |
| S61 | 3849 | (257/762,763,764,770,774).CCLS. | USPAT; EPO; JPO | OR | OFF | 2005/03/17 14:12 |
| S62 | 4508 | (257/762,763,764,770,774).CCLS. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/03/17 14:12 |
| S63 | 938 | 257/762,763,764,770,774.ccls. and pad | USPAT; EPO; JPO | OR | OFF | 2005/03/17 14:13 |
| S64 | 546 | 257/762,763,764,770,774.ccls. and pad and copper | USPAT; EPO; JPO | OR | OFF | 2005/03/17 16:56 |
| S65 | 2468 | anisotropically with method | USPAT; EPO; JPO | OR | OFF | 2005/03/17 16:57 |
| S66 | 0 | anisotropic with method with various | USPAT; EPO; JPO | OR | OFF | 2005/03/17 16:57 |
| S67 | 178 | anisotropic with method with different | USPAT; EPO; JPO | OR | OFF | 2005/03/17 16:58 |

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|-----|------|---|---------------------------------|----|-----|------------------|
| S68 | 22 | anisotropic with method with different with etch | USPAT; EPO; JPO | OR | OFF | 2005/03/17 17:00 |
| S69 | 23 | anisotropic with method with type with etch | USPAT; EPO; JPO | OR | OFF | 2005/03/17 17:00 |
| S70 | 1 | ("4666569").PN. | USPAT; EPO; JPO | OR | OFF | 2005/03/18 21:31 |
| S71 | 1 | "11317546".pn. | USPAT; EPO; JPO | OR | OFF | 2005/03/18 21:45 |
| S72 | 0 | "20040130002".pn. | USPAT; EPO; JPO | OR | OFF | 2005/03/18 21:46 |
| S73 | 1 | "20040130002".pn. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/03/18 21:46 |
| S74 | 3063 | algan and gan | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/03/18 21:46 |
| S75 | 2957 | algan and gan and semiconductor | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/03/18 21:46 |
| S76 | 2540 | algan and gan and semiconductor and light | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/03/18 21:47 |
| S77 | 1782 | algan and gan and semiconductor and light and gallium | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/03/18 21:47 |
| S78 | 816 | algan and gan and semiconductor and light and gallium | USPAT; EPO; JPO | OR | OFF | 2005/03/18 21:50 |
| S79 | 14 | algan adj cap and gan and semiconductor and light and gallium | USPAT; EPO; JPO | OR | OFF | 2005/03/18 21:50 |
| S80 | 1 | ("5814861").PN. | USPAT; EPO; JPO | OR | OFF | 2005/03/19 12:37 |
| S81 | 0 | "20020190284" .pn. | USPAT; EPO; JPO | OR | OFF | 2005/03/19 12:37 |
| S82 | 1 | "20020190284" .pn. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/03/19 12:37 |
| S83 | 1 | ("6642623").PN. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/06/21 13:35 |
| S84 | 1 | ("6373137").PN. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/06/21 13:35 |
| S85 | 6 | ((bond or bonding) with pad) and copper and (titanium.ti.) | USPAT; EPO; JPO | OR | OFF | 2005/06/23 15:48 |
| S86 | 237 | ((bond or bonding) with pad) and copper and (titanium with pad) | USPAT; EPO; JPO | OR | OFF | 2005/06/23 15:49 |

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|------|------|---|---------------------------------|-----|-----|------------------|
| S87 | 386 | ((bond or bonding) with pad) and copper and (titanium with pad) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/06/23 16:48 |
| S88 | 62 | ((copper adj titanium) or (titanium adj copper)) with pad | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/06/23 16:51 |
| S89 | 11 | (((copper adj titanium) or (titanium adj copper)) with alloy) with pad | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/06/23 17:24 |
| S90 | 1 | ("5892179").PN. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/06/23 17:24 |
| S91 | 6 | ((bond with pad) with nitrogen) and copper | USPAT; EPO; JPO | OR | OFF | 2005/06/24 13:40 |
| S92 | 127 | pad with nitrogen and copper and bond | USPAT; EPO; JPO | OR | OFF | 2005/06/24 13:41 |
| S93 | 1 | ("6180505").PN. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/06/24 13:47 |
| S94 | 11 | ("4661416" "4814049" "5071518" "5098860" "5106461" "5213638" "5308796" "5320689" "5385661" "5656858" "6020640").PN. | US-PGPUB; USPAT; USOCR | AND | OFF | 2005/06/24 13:48 |
| S95 | 6 | ("5468984" "5656858" "5665991" "5705857" "5739579" "5793112").PN. | US-PGPUB; USPAT; USOCR | AND | OFF | 2005/06/24 13:49 |
| S96 | 11 | ("4661416" "4814049" "5071518" "5098860" "5106461" "5213638" "5308796" "5320689" "5385661" "5656858" "6020640").PN. | US-PGPUB; USPAT; USOCR | AND | OFF | 2005/06/24 13:54 |
| S97 | 1 | ("6613671").PN. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/06/24 13:56 |
| S98 | 1 | ("5892179").PN. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/06/24 14:05 |
| S99 | 1 | ("6423625").PN. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/06/24 14:05 |
| S100 | 2 | ("5773359" "5937320").PN. | US-PGPUB; USPAT; USOCR | AND | OFF | 2005/06/24 14:42 |
| S101 | 2472 | (257/762-764).CCLS. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/06/24 14:43 |

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| S10 2 | 1200 | 257/762-764.ccls. and copper | US-PGPUB; USPAT; EPO; JPO | AND | OFF | 2005/06/24 14:43 |
| S10 3 | 2 | 257/762-764.ccls. and copper and apd | US-PGPUB; USPAT; EPO; JPO | AND | OFF | 2005/06/24 14:43 |
| S10 4 | 327 | 257/762-764.ccls. and copper and pad | US-PGPUB; USPAT; EPO; JPO | AND | OFF | 2005/06/24 14:43 |
| S10 5 | 467 | 257/770,774.ccls. and copper and pad | US-PGPUB; USPAT; EPO; JPO | AND | OFF | 2005/06/24 14:44 |
| S10 6 | 2583 | (257/770,774).CCLS. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/06/24 14:44 |
| S10 7 | 4861 | (257/770,774,762-764).CCLS. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/11/15 13:41 |
| S10 8 | 2583 | 257/770,774,762-764.ccls. and (copper or cu) | US-PGPUB; USPAT; EPO; JPO | AND | OFF | 2005/11/15 13:42 |
| S10 9 | 197 | copper adj bond\$6 adj pad | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/09 13:23 |
| S11 0 | 302 | (copper adj pad) and barrier | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/09 13:33 |
| S11 1 | 1 | ("6180505").PN. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/09 13:33 |
| S11 2 | 11 | ("4661416" "4814049" "5071518" "5098860" "5106461" "5213638" "5308796" "5320689" "5385661" "5656858" "6020640").PN. | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/05/09 13:37 |
| S11 3 | 1 | ("4603090").PN. | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/05/09 13:43 |
| S11 4 | 8 | ("4661416").URPN. | USPAT | AND | OFF | 2006/05/09 13:43 |
| S11 5 | 9 | ("4661416" "4814049" "5071518" "5098860" "5106461" "5213638" "5308796" "5320689" "5385661").PN. | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/05/09 13:57 |
| S11 6 | 454 | (bond\$ adj pad).ti. | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/05/09 13:57 |

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| S11 7 | 154 | (bond\$ adj pad).ti. and barrier | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/05/09 14:32 |
| S11 8 | 1 | ("6995082").PN. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/09 14:32 |
| S11 9 | 8 | ("5430329" "5923072" "6162652" "6191023" "6376353" "6426556" "6471115" "6583039").PN. | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/05/09 14:32 |
| S12 0 | 2 | ("6200910" "6538323").PN. | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/05/09 14:34 |
| S12 1 | 33 | ("4355456" "4878098" "4916519" "4948754" "4949150" "4993305" "4993618" "5009721" "5061985" "5082801" "5226582" "5235212" "5319224" "5441917" "5463255" "5502337" "5523626" "5587607" "5602420" "5608245" "5612570" "5623154" "5637920" "5640048" "5641978" "5644166" "5652467" "5666008" "5677570" "5693984" "5712508" "5731634" "5742100").PN. | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/05/09 14:39 |
| S12 2 | 298 | (copper adj pad) and barrier | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/05/09 14:43 |
| S12 3 | 240 | (copper adj pad) and barrier and thickness | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/05/09 14:53 |
| S12 4 | 2223 | ((copper or cu) with pad) and barrier and thickness | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/05/09 14:53 |
| S12 5 | 1983 | ((copper or cu) with pad) and barrier and thickness and (not S123) | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/05/09 14:54 |
| S12 6 | 1990 | ((copper or cu) with pad) and barrier and thickness and (not S123) | US-PGPUB; USPAT; USOCR; EPO; JPO | AND | OFF | 2006/05/09 14:54 |
| S12 7 | 1049 | ((copper or cu) with pad) and barrier and thickness and (not S123) | USPAT; EPO; JPO | AND | OFF | 2006/05/09 17:38 |

EAST Search History

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|----------|----|--|---------------------------------|-----|-----|------------------|
| S12 8 | 29 | ("4680086" "4796081" "4998157" "5269879" "5420076" "5514247" "5519254" "5600182" "5612254" "5668411" "5717253" "5747879" "5793111" "5801427" "5872061" "5888309" "5892282" "5904154" "5920122" "5923052" "5942799" "5945739" "5955785" "5958801" "5998871" "6028359" "6127249" "6144097" "6175155").PN. | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/05/09 15:29 |
| S12 9 | 9 | ("4663643" "4782380" "4931410" "5081064" "5082801" "5153685" "5234864" "5306952" "5341026").PN. | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/05/09 15:31 |
| S13 0 | 44 | ((copper or cu) adj pad) with thickness | USPAT; EPO; JPO | AND | OFF | 2006/05/09 15:48 |
| S13 1 | 11 | ("4980034" "5200360" "5460689" "5670421" "5736458" "5863446" "5939788" "5985762" "6037250" "6066892" "6100190").PN. | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/05/09 15:43 |
| S13 2 | 77 | okada.in. and pad and copper | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/05/09 15:44 |
| S13 3 | 14 | ((copper or cu) adj bond\$8 adj pad) with thickness | USPAT; EPO; JPO | AND | OFF | 2006/05/09 15:51 |
| S13 4 | 1 | ((copper or cu) with wire adj pad) with thickness | USPAT; EPO; JPO | AND | OFF | 2006/05/09 15:52 |
| S13 5 | 1 | ((copper or cu) with (wire adj pad)) with thickness | USPAT; EPO; JPO | AND | OFF | 2006/05/09 15:58 |
| S13 6 | 1 | ("6989297").PN. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/09 16:00 |
| S13 7 | 1 | ("6878465").PN. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/09 16:00 |
| S13 8 | 7 | ("5952083" "6042953" "6442307" "6518647" "6592812" "6703069" "6723628").PN. | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/05/09 16:00 |
| S13 9 | 4 | ("20010010408" "5939790" "5986343" "6229221").PN. | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/05/09 17:09 |
| S14 0 | 1 | ("6448641").PN. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/05/09 17:09 |

EAST Search History

| | | | | | | |
|----------|-----|--|------------------------------|-----|-----|------------------|
| S14 1 | 18 | ("5394013" "5404047" "5463255" "5502337" "5739587" "5751065" "5838043" "5869357" "5986343" "6043144" "6100573" "6163074" "6180993" "6207547" "6222270" "6261944" "6291331" "6313537").PN. | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/05/09 17:33 |
| S14 2 | 357 | wang.in. and pad and copper and barrier | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/05/09 17:33 |
| S14 3 | 11 | wang.in. and pad and copper and barrier and aptos | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/05/09 17:34 |
| S14 4 | 10 | ("3663184" "4514751" "4927505" "5130779" "5173449" "5406122" "5656858" "5682062" "5821620" "5920794").PN. | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/05/09 17:34 |
| S14 5 | 101 | ((copper or cu) with pad) with thickness and barrier and (not S123) | USPAT; EPO; JPO | AND | OFF | 2006/05/09 17:44 |
| S14 6 | 0 | copper adj electrode adj pad with thickness | USPAT; EPO; JPO | AND | OFF | 2006/05/09 17:44 |
| S14 7 | 0 | (copper adj electrode adj pad) with thickness | USPAT; EPO; JPO | AND | OFF | 2006/05/09 17:44 |
| S14 8 | 38 | (copper adj pad) with thickness | USPAT; EPO; JPO | AND | OFF | 2006/05/09 17:47 |
| S14 9 | 6 | (cu adj pad) with thickness | USPAT; EPO; JPO | AND | OFF | 2006/05/09 17:48 |
| S15 0 | 2 | (cu adj electrode adj pad) with thickness | USPAT; EPO; JPO | AND | OFF | 2006/05/09 17:49 |
| S15 1 | 0 | (copper adj electrode adj pad) with thickness | USPAT; EPO; JPO | AND | OFF | 2006/05/09 17:50 |
| S15 2 | 37 | ((aluminum adj pad) same copper) and pad with thickness | USPAT; EPO; JPO | AND | OFF | 2006/05/10 10:06 |